



EPL Environmental Monitoring Data

Project: Sydney Gateway Project

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Project Summary

The Sydney Gateway Road Project ('the Project') is a new direct high-capacity road connection linking the Sydney motorway network at St Peters interchange, where the M4 and M8 motorways meet, with Sydney Airport's domestic and international terminals and the Port Botany Precinct. John Holland Seymour Whyte have been contracted by Transport for New South Wales to design and construct the works for the Sydney Gateway Road Project. Figure 1 provides an overview of the Project.

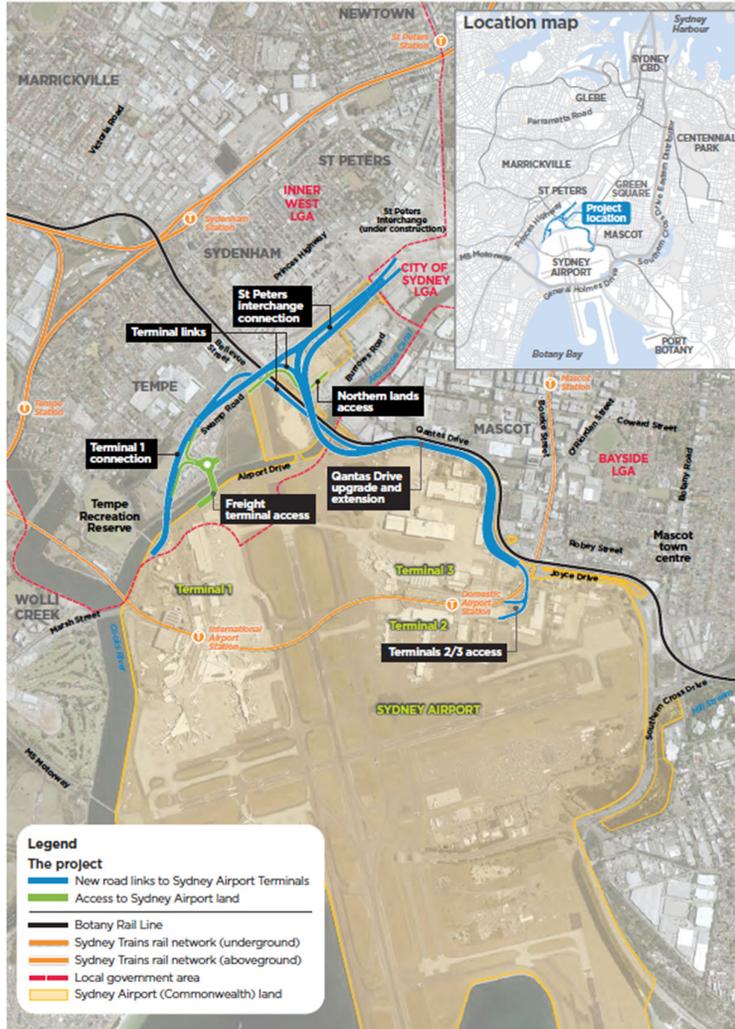


Figure 1: Project Overview

Environmental Protection Licence and Reporting Requirements

John Holland Pty Ltd obtained the Environment Protection Licence (EPL No. 21524) from the NSW Environment Protection Authority for the Project on behalf of the John Holland Seymour (JHSW) Joint Venture. The licence is for construction works relating to road construction as defined under Schedule 1 of the *Protection of the Environment Operations Act, 1997* (POEO Act).

The licence describes monitoring and reporting requirements for the Works. The following report details environmental monitoring undertaken during this reporting month conducted in accordance with the EPL.

The EPL can be found by following the link below to the EPA's website: [ViewPOEOLicence.aspx \(nsw.gov.au\)](http://ViewPOEOLicence.aspx(nsw.gov.au))

Noise and Vibration Monitoring

Vibration

Vibration monitoring was undertaken during the reporting period, all works were deemed compliant. Table 1 contains the vibration monitoring data. Results were recorded below the adopted structural damage criteria on all occasions.

Noise

Noise monitoring was undertaken during the reporting period, all works were deemed compliant as the noise sources were predominantly dominated by background noise sources, local traffic, and aircraft movements. Table 2 contains the noise monitoring results.

Discharge Water Quality Monitoring

Offsite discharge occurred during December 2023 via Tradewaste agreement only. Discharges were compliant with the requirements of the Tradewaste agreement during December 2023.

Landfill Gas and Gas Accumulation Monitoring

No subsurface landfill gas and gas accumulation monitoring was undertaken during the December 2023 monitoring period as sampling requirements are quarterly, the next round of sampling will be reported in the February 2024 EPL Monitoring Data Report.

Table 1: Vibration Monitoring Data

Monitoring Location	Monitoring Date	Attended or Continuous Monitoring	Measured VDV (m/s ^{1.75})	VDV Target (m/s ^{1.75})	VDV Compliant	Measured PPV (mm/s)	PPV Target (mm/s)	PPV Compliant	Comment/Field Observations
5 South Street, Tempe	06/12/2023	Attended	0.1	0.4	Yes	0.23	25	Yes	Works were monitored and found to be compliant with structural criteria and human comfort criteria.
1 Station Street, Tempe	06/12/2023	Attended	0.1	0.4	Yes	0.19	25	Yes	Works were monitored and found to be compliant with structural criteria and human comfort criteria.
3 South Street, Tempe	11/12/2023	Attended	0.3	0.4	Yes	0.42	25	Yes	Works were monitored and found to be compliant with structural criteria and human comfort criteria.
6 Smith Street, Tempe	11/12/2023	Attended	0.1	0.4	Yes	0.23	25	Yes	Works were monitored and found to be compliant with structural criteria and human comfort criteria.
3 South Street, Tempe	19/12/2023	Attended	0.1	0.4	Yes	0.21	25	Yes	Works were monitored and found to be compliant with structural criteria and human comfort criteria.

Note:

1. VDV – Vibration Dose Value
2. PPV – Peak Particle Velocity

Table 2: Noise Monitoring Data

Monitoring Location (Noise-Catchment Area, Street, Suburb)	Monitoring Date	Attended or Continuous Monitoring	Parameter	Measured Value dB(A)	Goals / Targets dB(A)	Project OOHW Compliance	Comments/Field Observations
NCA_02, 3 Bellevue Street, Tempe	01/12/2023	Attended	LAeq 15 min	69.5	62	Compliant	Traffic on Bellevue Street was the dominant noise source. Sydney Gateway works were compliant with predicted noise levels.
NCA_03, 3 Hart Street, Tempe	06/12/2023	Attended	LAeq 15 min	50.8	38	Compliant	Background noise from Tempe Lands Park, airplanes and traffic on Princes Highway were the dominant noise sources. Sydney Gateway works were not audible throughout the monitoring period. Sydney Gateway project works compliant.
NCA_03, 3 South Street, Tempe	11/12/2023	Attended	LAeq 15 min	55.7	67	Compliant	Traffic on South Street and airplanes were the dominant noise source. Sydney Gateway works were not audible throughout the monitoring period. Sydney Gateway project works compliant.
NCA_03, 6 Smith Street, Tempe	11/12/2023	Attended	LAeq 15 min	62.7	67	Compliant	Aircraft movements were the dominant noise source. Sydney Gateway works were not audible throughout the monitoring period. Sydney Gateway project works compliant.
NCA_03, 3 South Street, Tempe	19/12/2023	Attended	LAeq 15 min	69.4	67	Compliant	Aircraft movements were the dominant noise source. Sydney Gateway works were not audible throughout the monitoring period. Sydney Gateway project works compliant.

1. LAeq (15min) - The A-weighted equivalent continuous (energy average) A-weighted sound pressure level over a 15-minute period.
2. dBA - Decibels using the A-weighted scale measured according to the frequency of the human ear.

